

71
1646R
DMV
Box 589
1-28-01

**Combined Response to Notice to Comply and
Fee Transmittal**

Application Number	09/503,997
Confirmation Number	5507
Filing Date	June 27, 2000
First Named Inventor	Toshio Miyata
Examiner	P. Mertz
Group Art	1646
Attorney Docket No.	SHIM004

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TECH CENTER 1600/2900

ADDRESS TO: Assistant Commissioner for Patents
Washington, D.C. 20231

This communication is responsive to the Notice to Comply dated September 27, 2001, which set a one month period for filing this response, making this response due on October 27, 2001.

Pursuant to 37 CFR 1.821(e), applicant submits herewith a Sequence Listing in computer readable form to be filed in the subject application. In addition, applicant submits a paper copy of the Sequence Listing as required under 37 CFR 1.821(c). The Sequence Listing was prepared with the software FASTSEQ, and conforms with the Patent Office guidelines.

As required by 37 CFR 1.82(f), the information in the hard copy and computer readable form are identical. Applicant respectfully submits that the subject application is in adherence to 37 CFR 1.821 - 1.825.


I hereby state that this submission, filed in accordance with 37 CFR 1.821(g), does not contain new material.

Completion of fees as calculated below (duplicate copy enclosed)

Extension of time from _____ to _____	
Other <u>Copy of Notice to Comply; Return Receipt Postcard</u>	
TOTAL	\$ -

The Commissioner is authorized to charge any fees which may be required, or credit any overpayment to Deposit Account 50-0815. If additional fees are required, including extensions of time, please consider this a petition therefore.

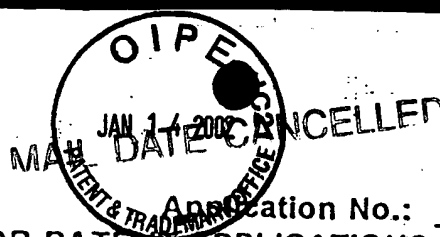
SIGNATURE OF APPLICANT, ATTORNEY OR AGENT REQUIRED

NOTARY REQUIRED									
Name (Print/Type)	Karl Bozicevic				Registration No.	28,807			
Signature					Date	Oct. 22, 2001			
Firm Name	Bozicevic, Field & Francis LLP			Address	200 Middlefield Road, Suite 200				
City	Menlo Park		State	California			zip	94025	
Telephone	650-327-3400			Facsimile	650-327-3231				

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope.

Name (Print/Type)	Kimberly W. Zuehlke	Signature		Date	10/22/01
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Application No.: 09/508,99

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☒ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☒ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

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Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

SEQUENCE LISTING



<110> Miyata, Toshio

<120> MEGSIN PROTEIN

<130> SHIM004

<140> 09/508,997

<141> 2000-06-27

<150> PCT/JP98/04269

<151> 1998-09-22

<150> 9/275302

<151> 1997-09-22

<160> 44

<170> FastSEQ for Windows Version 4.0

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<211> 1867

<212> DNA

<213> Homo sapiens

<220>

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tcctctargg umtasasasn gngyasngya snvahhsrsr ctgagcctct tcgctgcct 180
ggccttggtc cgcttggcg ctcaagatus ruhaaaauaa uvaargugya agnasgactc 240
cctctctcag attgataagt tgcctcatgt taacactgcc tcaassrusr gnasyuuhs 300
vaasnthraa srggatatgg aaactcttct aatagtcagt cagggtcca gtctcaactg 360
gytyrgyasn srsrasnrg nsrgyugnsr gnuaaaagag tttttctga tataaatgca 420
tcccacaagg attatgatct cysargvahs rasanasr hsysastyra suagcattgt 480
gaatgggctt ttgctgaaa aagtgtatgg ctttcataag srvaasngyu haaguysvat 540
yrgyhhsysg actacattga gtgtgccgaa aaattatacg atgccaaagt ggagcgaast 600
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agacgtaata ttaataagva ashthrasnh suguasthra rgargasnas nystgggttg 720
aaaatgaaac acatggcaaa atcaagaacg tgatttgtga atrvaguasn guthrhsgyy 780
sysasnvyg guggtggcat aagctcatct gctgtaatgg tgctgtgaa tgctgtgtac 840
gygysrsrsr aavamtvaav aasnaavaty rtcaaaggc aagtggcaat cagccttcac 900
caagagcgaa accataaath ysgystrgn sraahthrys srguthrasn tgccatttca 960
aatctcccaa gtgctctggg aaggcagtcg ccatgatgcy shshysrry scysrsgyys 1020
aavaamtmt catcaggaac ggaagttcaa ttgtctgtt attgaggacc catcaatghs 1080
ngnuargysh asnusrvagu asrsrmtaag attcttgagc tcagatacaa tgggtggcata 1140
aacatgtacg ttctgysugu uargtyrasn gygyasnmmt yrvauctgcc tgagaatgac 1200
ctctctgaaa ttgaaaacaa actgaccttt cagurguasn asusrgugua snysuthrhg 1260
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hrasnarga rgmtthrsry styrvagagg tatttttcc tcagttcaag atagagaaga 1380

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attatgaaat gaaaguvahh rgnhysguys asntyrgumt yscaatattt gagagcccta 1440
 gggctgaaag atatctttga tgaatccaaa gntyruarga augyuysash asgusrysgc 1500
 agatctctct gggattgctt cggggggtcg tctgtatata tcaaggaaas usrgyaasrg 1560
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 gtttagagct gaccacccat tcctatttgt tatcaggaag gatthruhar gaaashsrhu 1800
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 <211> 380
 <212> PRT
 <213> Homo sapiens

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 20 25 30
 Leu Ser Leu Phe Ala Ala Leu Ala Leu Val Arg Leu Gly Ala Gln Asp
 35 40 45
 Asp Ser Leu Ser Gln Ile Asp Lys Leu Leu His Val Asn Thr Ala Ser
 50 55 60
 Gly Tyr Gly Asn Ser Ser Asn Ser Gln Ser Gly Leu Gln Ser Gln Leu
 65 70 75 80
 Lys Arg Val Phe Ser Asp Ile Asn Ala Ser His Lys Asp Tyr Asp Leu
 85 90 95
 Ser Ile Val Asn Gly Leu Phe Ala Glu Lys Val Tyr Gly Phe His Lys
 100 105 110
 Asp Tyr Ile Glu Cys Ala Glu Lys Leu Tyr Asp Ala Lys Val Glu Arg
 115 120 125
 Val Asp Phe Thr Asn His Leu Glu Asp Thr Arg Arg Asn Ile Asn Lys
 130 135 140
 Trp Val Glu Asn Glu Thr His Gly Lys Ile Lys Asn Val Ile Gly Glu
 145 150 155 160
 Gly Gly Ile Ser Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
 165 170 175
 Phe Lys Gly Lys Trp Gln Ser Ala Phe Thr Lys Ser Glu Thr Ile Asn
 180 185 190
 Cys His Phe Lys Ser Pro Lys Cys Ser Gly Lys Ala Val Ala Met Met
 195 200 205
 His Gln Glu Arg Lys Phe Asn Leu Ser Val Ile Glu Asp Pro Ser Met
 210 215 220
 Lys Ile Leu Glu Leu Arg Tyr Asn Gly Gly Ile Asn Met Tyr Val Leu
 225 230 235 240
 Leu Pro Glu Asn Asp Leu Ser Glu Ile Glu Asn Lys Leu Thr Phe Gln
 245 250 255
 Asn Leu Met Glu Trp Thr Asn Pro Arg Arg Met Thr Ser Lys Tyr Val
 260 265 270
 Glu Val Phe Phe Pro Gln Phe Lys Ile Glu Lys Asn Tyr Glu Met Lys
 275 280 285
 Gln Tyr Leu Arg Ala Leu Gly Leu Lys Asp Ile Phe Asp Glu Ser Lys
 290 295 300
 Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Ile Ser Arg

305	310	315	320
Met Met His Lys Ser Tyr Ile Glu Val Thr Glu Glu Gly Thr Glu Ala			
325	330	335	
Thr Ala Ala Thr Gly Ser Asn Ile Val Glu Lys Gln Leu Pro Gln Ser			
340	345	350	
Thr Leu Phe Arg Ala Asp His Pro Phe Leu Phe Val Ile Arg Lys Asp			
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 <211> 1938
 <212> DNA
 <213> Rattus rattus

<220>
 <223> n is an unknown and may be any natural amino acid

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 ttcuahrggu mtassrsrgn gyasngyasn vahhtcttcc ctgagcatct tcaactgcct 180
 gagcctaate cgtttgggtg ctsrsrusrh thraausrua rgugyaacga ggtgactgtn 240
 nncgtcagat tgacaaggcc ctgcacttta tctccarggy ascysaaarg gnasyasaauh 300
 shsrccatca agacaaggga attcatcgaa cagtcagcta ggactgcaat atrsrarggn 360
 gyasnsrsra snsrngugyu gntyrcaatt gaaaagagtt cttgctgaca taaactcatc 420
 tcataaggat nnnnguysar gvauaaasas nsrsrshysa saaaaactca gcattgccaa 480
 tggagtttt gcagagaaag tatttgattt tysusraas ngyvahaagu ysvahashca 540
 taagagctat atggagtgtg ctgaaaactt atacaatgct aaagtghsys srtyrmtguc 600
 ysaaguasnu tyrasnaays vagaaagagt tgattttaca aatgatatac aagaaaccag 660
 atttaaaatt guargvaash thrasnasgn guthrarghy saataaatgg attgaaaatg 720
 aaacacatgg caaaatcaag aaggtgttga snystrguas nguthrhsgy ysysysvaug 780
 gggacagcag cctcagctca tcagctgtca tgggtgctagt gaatgctgya ssrsrusrsr 840
 sraavamtva uvaasnaagt ttacttcaaa ggcaagtga aatcggcctt caccaagagt 900
 gataccvaty rhyssgystr yssraahthr yssrasthrc tcagttgcca ttccaggtct 960
 cccagcggtc ctggaaaagc agttaatusr cyshshargs rrsrgyrgyy saavaasnat 1020
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 tgtacrmtn uguugntyrh sgygysrmtt yratcatgtt gcccaggat gacatatccg 1200
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 yssrgntatg tgaatgtgtt tctccccag ttcaagatag agaaagatta tgaatyrvaa 1380
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 aaagctaate cacaagtccc tcatagaggt ctgagaagaa ggcaccsrys umthsyssru 1620
 guvasrgugu gythrgaggc aactgctgcc acagaaagta acatcgttga aaagctactt 1680
 cctguaathr aaaathrgus rasnvaguys uurgaatcca cggtgttcag agctgaccgc 1740
 ccctttctgt ttgtcattag ggusrthrva hargaaasar gruhvaarg aagaatggca 1800
 tcatcttatt tactggcaaa gtctcgtgtc ctysasngyu hthrgyysva srcysrtgaa 1860
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 gtaattggaa gtacatgg 1938

<210> 4

<211> 380
<212> PRT
<213> Rattus rattus

<220>
<223> Xaa indicates a naturally occurring unknown amino
acid

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20 25 30
Leu Ser Ile Phe Thr Ala Leu Ser Leu Ile Arg Leu Gly Ala Arg Gly
35 40 45
Asp Cys Xaa Arg Gln Ile Asp Lys Ala Leu His Phe Ile Ser Pro Ser
50 55 60
Arg Gln Gly Asn Ser Ser Asn Ser Gln Leu Gly Leu Gln Tyr Gln Leu
65 70 75 80
Lys Arg Val Leu Ala Asp Ile Asn Ser Ser His Lys Asp Xaa Lys Leu
85 90 95
Ser Ile Ala Asn Gly Val Phe Ala Glu Lys Val Phe Asp Phe His Lys
100 105 110
Ser Tyr Met Glu Cys Ala Glu Asn Leu Tyr Asn Ala Lys Val Glu Arg
115 120 125
Val Asp Phe Thr Asn Asp Ile Gln Glu Thr Arg Phe Lys Ile Asn Lys
130 135 140
Trp Ile Glu Asn Glu Thr His Gly Lys Ile Lys Lys Val Leu Gly Asp
145 150 155 160
Ser Ser Leu Ser Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
165 170 175
Phe Lys Gly Lys Trp Lys Ser Ala Phe Thr Lys Ser Asp Thr Leu Ser
180 185 190
Cys His Phe Arg Ser Pro Ser Gly Pro Gly Lys Ala Val Asn Met Met
195 200 205
His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln Glu Pro Pro Met
210 215 220
Gln Ile Leu Glu Leu Gln Tyr His Gly Gly Ile Ser Met Tyr Ile Met
225 230 235 240
Leu Pro Glu Asp Asp Leu Ser Glu Ile Glu Ser Lys Leu Ser Phe Gln
245 250 255
Asn Leu Met Asp Trp Thr Asn Ser Arg Lys Met Lys Ser Gln Tyr Val
260 265 270
Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asp Tyr Glu Met Arg
275 280 285
Ser His Leu Lys Ser Val Gly Leu Glu Asp Ile Phe Val Glu Ser Arg
290 295 300
Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Val Ser Lys
305 310 315 320
Leu Met His Lys Ser Leu Ile Glu Val Ser Glu Glu Gly Thr Glu Ala
325 330 335
Thr Ala Ala Thr Glu Ser Asn Ile Val Glu Lys Leu Leu Pro Glu Ser
340 345 350
Thr Val Phe Arg Ala Asp Arg Pro Phe Leu Phe Val Ile Arg Lys Asn
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Gly Ile Ile Leu Phe Thr Gly Lys Val Ser Cys Pro
 370 375 380

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 <212> DNA
 <213> Mus musculus

<220>
 <223> n is an unknown and may be any natural amino acid

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 ttgacaaggc actgcacttt gyaarggya scysaaargg nasysaaus haacatacca 240
 tcaagacaag gaaactatc taataatcag ccaggactta snrsrarggn gyasnsrsra 300
 snasngnrgy ucagtatcaa ttgaaaagag ttcttgctga cataaactca tctcataagg 360
 ntyrgnuysa rgvauaaaas snrsrshsys gattatgaac tcagcattgc cactggagtt 420
 ttgcagaaa aagtctatas tyrguusraa thrgyvaha guysvatyrg actttcataa 480
 gaactacatt gagggtgctg aaaacttata caatgctash hsysasntyrgucysaagua 540
 snutyraasna aaaagtggaa agagttgact tcacaaatga tgtacaagat accagattty 600
 svaguargva ashthrasna svagnasthr arghaaaatt aataaatgga ttgaaaatga 660
 gacacatgga aagatcaaga agysasnyst rguasnguth rhsgyysysy sgtgtgggc 720
 gacagcagcc tcagctcgtc ggctgtcatg gtgctggtg augyassrsr usrsrsraav 780
 amtvauvaava cgctgtttac ttcaaaggca aatggaaatc ggccttcacc aagactasna 840
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 acgtgtcctg gaaaagtaas thrsrcysa rghargsrrt hrcysrgyys vagttaatat 960
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 rcysrtgaaa ttcgatttgg tttctatac agtaacaggc atcaagaa 1848

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 <212> PRT
 <213> Mus musculus

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 20 25 30

Gly Ala Arg Gly Asp Cys Ala Arg Gln Ile Asp Lys Ala Leu His Phe
 35 40 45
 Asn Ile Pro Ser Arg Gln Gly Asn Ser Ser Asn Asn Gln Pro Gly Leu
 50 55 60
 Gln Tyr Gln Leu Lys Arg Val Leu Ala Asp Ile Asn Ser Ser His Lys
 65 70 75 80
 Asp Tyr Glu Leu Ser Ile Ala Thr Gly Val Phe Ala Glu Lys Val Tyr
 85 90 95
 Asp Phe His Lys Asn Tyr Ile Glu Cys Ala Glu Asn Leu Tyr Asn Ala
 100 105 110
 Lys Val Glu Arg Val Asp Phe Thr Asn Asp Val Gln Asp Thr Arg Phe
 115 120 125
 Lys Ile Asn Lys Trp Ile Glu Asn Glu Thr His Gly Lys Ile Lys Lys
 130 135 140
 Val Leu Gly Asp Ser Ser Leu Ser Ser Ser Ala Val Met Val Leu Val
 145 150 155 160
 Asn Ala Val Tyr Phe Lys Gly Lys Trp Lys Ser Ala Phe Thr Lys Thr
 165 170 175
 Asp Thr Leu Ser Cys Arg Phe Arg Ser Pro Thr Cys Pro Gly Lys Val
 180 185 190
 Val Asn Met Met His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln
 195 200 205
 Gln Pro Pro Met Gln Val Leu Glu Leu Gln Tyr His Gly Gly Ile Ser
 210 215 220
 Met Tyr Ile Met Leu Pro Glu Asp Gly Leu Cys Glu Ile Glu Ser Lys
 225 230 235 240
 Leu Ser Phe Gln Asn Leu Met Asp Trp Thr Asn Arg Arg Lys Met Lys
 245 250 255
 Ser Gln Tyr Val Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asn
 260 265 270
 Tyr Glu Met Thr His His Leu Lys Ser Leu Gly Leu Lys Asp Ile Phe
 275 280 285
 Asp Glu Ser Ser Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu
 290 295 300
 Tyr Val Ser Lys Leu Met His Lys Ser Phe Ile Glu Val Ser Glu Glu
 305 310 315 320
 Gly Thr Glu Ala Thr Ala Ala Thr Glu Asn Asn Ile Val Glu Lys Gln
 325 330 335
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 Ile Lys Lys Asn Asp Ile Ile Leu Phe Thr Gly Lys Val Ser Cys Pro
 355 360 365

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 <223> Synthesis

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<220>
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<210> 9
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<210> 17
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<400> 17
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